

Common Name	Scientific Name	USDA Hardiness Zone	Soil Moisture Scale of 1 (very wet) to 12 (very dry)	Sunlight Conditions	Salt Tolerance	pH	Insect/Disease Factors	Height	Width	Form	Growth Rate	Ornamental Characteristics	Transplant issues	Management Issues	Suggested Uses	Other	Size Small (<30'), Medium to Large (>30')	Listed in Acceptable Street Trees for Dover, NH	Listed On the Silver Street Planting List	Listed In Downtown Dover Pedestrian and Vehicular Access and Streetscape Study	Estimated percent of Street Trees in CBD (Inventory Results)	Average Condition of Species in CBD (1=dead, dying; 2=poor; 3=fair; 4=good)
Flame Amur Maple	<i>Acer Ginnala 'flame'</i>	3-8	3-10	Full sun to partial shade	Some tolerance	≤ 8.2	Susceptible to Asian Longhorned Beetle (present in Worcester, MA)	15-25'	15-25'	Rounded, irregular, available multi-stemmed	Slow to Medium	Fragrant, yellow-white clusters; abundant red fruit; fall color	Easy to transplant B&B or ≤ 2" caliper bare root	Suckering at base can be a problem	Wide street tree lawns/pits, narrow street tree lawns, pits with pruning		Small		X		3.1%	3.2
Serviceberry/ Juneberry	<i>Amelanchier canadensis</i>	4-8	4-7	Full sun to partial shade	Sensitive	≤ 7.5	None limiting, foliage diseases can be a problem	20-30'	15-25'	Oval, multi- or single-stem available	Medium	White flowers, edible reddish-purple to black fruit, fall color, gray streaked bark	Easy to transplant B&B or ≤ 2" caliper bare root	Rootstock suckering possible	Narrow or wide street tree lawns/pits, parks	Poor heat tolerance, less tolerant of urban settings	Small		X		1.7%	3
American Hornbeam, Ironwood, Musclewood	<i>Carpinus caroliniana</i>	3-9	3-9	Partial to full shade	Sensitive	≤ 7.5	Relatively pest free	30'	25'	rounded, spreading, often irregular, often multi-stemmed	Slow	Green flowers, small nutlets, fall color, attractive smooth gray, fluted bark	Difficult to transplant B&B or bare root, can be slow to establish	None of significance	Narrow or wide street tree lawns/pits, parks	Less tolerant of urban settings	Small	X			0.3%	2
Eastern Redbud	<i>Cercis canadensis</i>	4-9	4-10	Full sun to partial shade	Some tolerance	≤ 8.2	None limiting, cankers can be a problem	20-30'	25-35'	Open, spreading, somewhat flat-topped, multi-stemmed or low branching	Medium	Showy purple-pink edible flowers, pods, yellow fall color, attractive bark	Easy to transplant B&B, moderately difficult to transplant bare root	None of significance	Wide street tree lawns/pits if using multi-stemmed form, narrow street tree lawns/pits if using standard or pruning	Less tolerant of urban settings	Small				0.0%	
Cornelian-Cherry Dogwood	<i>Cornus mas</i>	5-8	4-9	Full sun to partial shade	Some tolerance	≤ 8.2	Relatively pest free	20'	30'	Round to oval, often multi-stemmed, low branching	Slow to Medium	Showy, small yellow flowers, bright red edible fruit, occasional purple-red fall color, attractive brown and gray, flaky bark	Easy to transplant B&B or ≤ 2" caliper bare root	Low branch attachments may require pruning for street tree use	Wide street tree lawns/pits, narrow street tree lawns, pits with pruning or single leader, parks		Small		X		0.3%	4
Stellar Pink Dogwood	<i>Cornus 'stellar pink'</i>	5-9	well drained	Full sun	Some tolerance		Disease resistant	25'	25'	Some tolerance	Medium to Fast	Pink showy flowers and fall color		Low branch attachments may require pruning for street tree use	Low branch attachments may require pruning for street tree use		Small		X		0.0%	
Honey Locust	<i>Gleditsia triacanthos</i>	3-9	2-12	Full sun	Some tolerance	≤ 8.2	Overplanting has encouraged insect problem in some areas	30-35' or larger, depending on cultivar	35'	Broadly rounded, open and spreading, good horizontal branching angles	Fast	Inconspicuous flower, essentially fruitless, yellow fall color	Easy to transplant B&B or ≤ 2" caliper bare root	Small leaves easy for fall cleanup	Narrow or wide street tree lawns/pits, parks	Generally drops leaves early	Small	X	X		1.7%	3.7
Flowering Crabapple ('Spring Snow' included on Silver St. Planting List)	<i>Malus spp.</i>	3-8	4-11	Full sun	Some tolerance	≤ 8.2	Many cultivars are highly disease susceptible	Variable depending on cultivars, generally 15-20'	Variable depending on cultivars, generally 10-25'	Variable depending on cultivars	Variable depending on cultivars	Variable depending on cultivars, generally flowering with red or orange fruit	Easy to transplant B&B or ≤ 2" caliper bare root	Fruit litter on streets can be objectionable	Narrow or wide street tree lawns/pits, parks		Small		X		5.0%	4
Elizabeth Magnolia	<i>Magnolia 'elizabeth'</i>	5-8														Small		X		0.0%		

Common Name	Scientific Name	USDA Hardiness Zone	Soil Moisture Scale of 1 (very wet) to 12 (very dry)	Sunlight Conditions	Salt Tolerance	pH	Insect/Disease Factors	Height	Width	Form	Growth Rate	Ornamental Characteristics	Transplant issues	Management Issues	Suggested Uses	Other	Size Small (<30'), Medium to Large (>30')	Listed in Acceptable Street Trees for Dover, NH	Listed On the Silver Street Planting List	Listed In Downtown Dover Pedestrian and Vehicular Access and Streetscape Study	Estimated percent of Street Trees in CBD (Inventory Results)	Average Condition of Species in CBD (1=dead, dying; 2=poor; 3=fair; 4=good)
Sourwood	<i>Oxydendron arboretum</i>	5-9		Full sun				25-30'	20'	Oval	Medium	White flowers that attract bees, rich green leaves with variable fall color				Largely untried as a street tree	Small		X		0.0%	
Japanese Cherry	<i>Prunus serrulata</i>	5-8														Cherries often short-lived as street trees (50yrs at a good site, 15-25yrs in sub-optimal site)	Small				3.4%	3.8
Japanese Tree Lilac ('Ivory Silk' included on Silver St. Planting List)	<i>Syringa Reticulata</i>	3-7	4-11	Full sun to partial shade	Some tolerance	≤ 8.2	Resistant to powdery mildew, the most common lilac problem	20-25'	15-20'	Oval	Slow	Showy, cream colored flowers, fall color often nonexistent, attractive cherry-like bark with horizontal lenticels	Easy to transplant B&B or ≤ 2" caliper bare root	None of significance	Narrow or wide street tree lawns/pits, parks		Small		X		2.0%	3.1
Red Maple ('Burgundy Belle' included on Silver St. Planting List)	<i>Acer rubrum</i>	3-9	2 or 4-8, depending on cultivar	Full sun	Sensitive	≤ 7.0	Some cultivars susceptible to Verticillium Wilt and leaf hoppers; Susceptible to Asian Longhorned Beetle (present in Worcester, MA)	35-60'	30-70'	Pyramidal in youth, narrow upright to rounded with age, varies greatly depending on cultivar	Medium to fast	Showy, red or yellow clusters, fall color, attractive silver-gray bark in youth	Easy to transplant B&B or ≤ 2" caliper bare root	Thin bark can be easily damaged	Narrow or wide street tree lawns/pits, parks	Less tolerant of urban settings	Medium to Large	X	X	X	8.9%	3.5
Fort McNair Horsechestnut	<i>Aesculus carnea 'fort mcnair'</i>	4-7	4-8	Full sun	Unknown	≤ 8.2	Cultivar is more resistant to leaf scorch and leaf blotch than others	35-50'	30'	Oval to round, typically dense	Slow	Tall pink to red flowers, glossy brown nuts in slightly prickly capsules	Easy to transplant B&B or ≤ 2" caliper bare root	Flower, fruit, leaf and twig litter may be a problem in some areas	Narrow or wide street tree lawns/pits, parks		Medium to Large		X		1.1%	3.3
River Birch (Single Trunk)	<i>Betula nigra</i>	4-9	2-8	Full sun to partial shade	Unknown	≤ 7.0	Resistant to bronze birch borer; Susceptible to Asian Longhorned Beetle (present in Worcester, MA)	40-50'	30-40'	Broadly pyramidal to oval, vigorous grower, multi-stems or single stem forms	Medium to fast	Brown catkins, yellow fall color, leaves vary depending on cultivar	Moderately difficult to transplant bare root, better success at planting bare root in fall, best planted B&B	Can be low branched, may require pruning to be used as a street tree	Narrow or wide street tree lawns/pits, parks, preferable wide lawns for multi-stem form		Medium to Large	X			0.0%	

Common Name	Scientific Name	USDA Hardiness Zone	Soil Moisture Scale of 1 (very wet) to 12 (very dry)	Sunlight Conditions	Salt Tolerance	pH	Insect/Disease Factors	Height	Width	Form	Growth Rate	Ornamental Characteristics	Transplant issues	Management Issues	Suggested Uses	Other	Size Small (<30'), Medium to Large (>30')	Listed in Acceptable Street Trees for Dover, NH	Listed On the Silver Street Planting List	Listed In Downtown Dover Pedestrian and Vehicular Access and Streetscape Study	Estimated percent of Street Trees in CBD (Inventory Results)	Average Condition of Species in CBD (1=dead, dying; 2=poor; 3=fair; 4=good)
European Hornbeam	<i>Carpinus betulus</i>	5-7	4-9	Full sun	Sensitive	≤ 8.2	None serious or limiting	40-60'	30-40'	Pyramidal to rounded in youth, oval to rounded at maturity	Slow to Medium	Catkins with light green bracts, small nutlets, yellow-green, often late fall color, attractive smooth slate-gray bark	Difficult to transplant B&B or bare root, somewhat slow to establish	Typically low branched, may require pruning to be used as street tree, tolerates heavy pruning, narrow branch angles can be a problem with snow/ice loads, dieback can be a minor problem	Narrow or wide street tree lawns/pits, parks	Fine textured branches, low branching tendency typically created short trunk	Medium to Large	X			0.3%	4
Black Gum or Black Tupelo	<i>Nyssa sylvatica</i>	4-9	2-10	Full sun	Some tolerance	≤ 7.5	Non serious or limiting	30-60'	20-40'	Pyramidal when young, dense, horizontal branching, irregular-rounded or oval to pyramid with age	Slow to Medium	Glossy green foliage in summer, excellent fall color, bark is dark gray to brown, often silvery	Difficult to transplant, use small caliper B&B only, slow to recover from transplanting	Fruits can stain sidewalk and may cause litter problems	Narrow or wide street tree lawns/pits, parks		Medium to Large					
Yellowwood (Single Trunk)	<i>Cladrastis kentukea</i>	4-8	4-7	Full sun	Unknown	≤ 8.2	Relatively pest free	30-50'	40-55'	Broadly rounded, graceful arching habit, branches low and typically loses central leader	Medium to fast	Showy, white long clustering flowers, brown seed pods, yellow fall color, attractive smooth gray bark	Easy to transplant B&B or ≤ 2" caliper bare root	Prune only in summer as profuse bleeding will occur other times of the year, can be weakened with poor crotch angles that split out as the tree grows older, thin bark sensitive to mechanical damage	Wide street tree lawns/pits, narrow street tree lawns/pits with pruning, parks	May need to specify single-stem for street tree use due to multi-stemmed potential	Medium to Large	X		0.0%		
Ginkgo	<i>Ginkgo biloba</i>	3-8	4-12	Full sun	Some tolerance	≤ 8.2	Relatively pest free	50-80', can reach over 100'	Greatly variable, 30-40' is common, potentially wider than high at maturity	Variable irregular when young, pyramidal with age, open, often large wide-spreading branches	Slow	Noxious smelling fruit on female trees, bright green foliage in summer, yellow in fall	Difficult to transplant bare root, best planted B&B	Specify male trees to avoid fruit litter and noxious fruit smell, easy fall clean-up as all leaves drop within a couple days of each other	Narrow or wide street tree lawns/pits, parks		Medium to Large	X		3.6%	3.8	
Kentucky Coffee tree	<i>Gymnocladus dioica</i>	3-8	3-12	Full sun	Unknown	≤ 8.2	Relatively pest free	50-70'	40-50'	Very sparse branching when young, oval to vase shaped, upward arching branches, open, unique and irregular, provides filtered shade in summer	Medium	Green-white or yellow-white flowers, leathery reddish brown pods that persist through winter, yellow fall color, attractive gray-brown bark with thin and scaly ridges curling outward exposing an orange-brown color	Easy to transplant B&B or ≤ 2" caliper bare root	Use of male tree eliminates fruit litter problem	Narrow or wide street tree lawns/pits, parks	Particularly interesting and picturesque in winter	Medium to Large	X		0.0%		

Common Name	Scientific Name	USDA Hardiness Zone	Soil Moisture Scale of 1 (very wet) to 12 (very dry)	Sunlight Conditions	Salt Tolerance	pH	Insect/Disease Factors	Height	Width	Form	Growth Rate	Ornamental Characteristics	Transplant issues	Management Issues	Suggested Uses	Other	Size Small (<30'), Medium to Large (>30')	Listed in Acceptable Street Trees for Dover, NH	Listed On the Silver Street Planting List	Listed In Downtown Dover Pedestrian and Vehicular Access and Streetscape Study	Estimated percent of Street Trees in CBD (Inventory Results)	Average Condition of Species in CBD (1=dead, dying; 2=poor; 3=fair; 4=good)
Sweetgum	<i>Liquidambar styraciflua</i>	5-9	3-9	Full sun	Unknown	≤ 7.5	Non serious or limiting	50-75', 80-12' in wild	40-65'	Pyramidal when young, oval to round with age, straight trunk	Medium to fast	Glossy deep green summer foliage with excellent fall color	Transplant B&B, not bare root	Fruit litter may be objectionable	Narrow or wide street tree lawns/pits, parks		Medium to Large	X			0.0%	
Tulip tree or Yellow poplar	<i>Liriodendron tulipifera</i>	4-9	3-7	Full sun	Sensitive	≤ 8.2	Non serious or limiting	70-90', can grown 150'+ in wild	35-50'	Somewhat pyramidal in youth, oval with age	Medium to fast	2", upright, tulip shaped flower, yellow fall color	Difficult to transplant B&B or bare root, B&B transplanting in small caliper is best	Soft bar easily damaged by mechanical injury, leaf yellowing followed by leaf drop can be a problem if trees do not receive enough water	Wide street tree lawns/pits or parks due to size and drought sensitivity		Medium to Large				0.0%	
Bloodgood London Planetree (Sycamore, <i>Plantanus occidentalis</i> , ID'd in inventory)	<i>Platanus acerfolia</i>	5-9	2-11	Full sun	Some tolerance	≤ 8.2	Overplanting has encouraged disease and insect problems	70-100'	65-80'	Pyramidal when young, open and spreading with age, develops massive branches	Medium	Medium to dark green summer foliage, yellow-brown in fall, extremely showy bark, mottled with cream, olive, and light brown colors	Easy to transplant B&B or ≤ 2" caliper bare root	Frost cracking is common, roots will heave sidewalks, bark/leaf/fruit litter may be a nuisance	Wide street tree lawns/pits or parks due to size		Medium to Large	X			0.6%	3.5
Pin Oak	<i>Quercus palustris</i>	4-8	2-10	Full sun	Sensitive	≤ 7.0	Over planting has encouraged problems, including gypsy moth, oak wilt, galls and cankers	50-70', can reach 100' in wild	40-50'	Pyramidal in youth, oval with age, strong central leader, distinct branching habit- upper branches upright, middle branches horizontal, lower branches descending	Fast for an oak	Acorns, scarlet in fall, young trees hold leaves throughout winter	Only transplant B&B, moderately difficult to transplant bare root, better success in transplanting bare root in fall	Acorns may be a littler problem in certain years, descending lower branches may need pruning where clearance is needed	Wide street tree lawns/pits or parks preferred due to size		Medium to Large	X			0.0%	
Red Oak	<i>Quercus rubra</i>	3-8	4-11	Full sun	Some tolerance	≤ 7.5	Oak wilt is a serious problem in more southern areas	60-80', can grown 90-100' in wild	50-70'	Round	Fast for an oak	Acorns, heavy corps at 3-5 year intervals, dark green leaves in summer, russet-red to bright red in fall, bark is gray, nearly black with age, wide flat-topped with silver gray ridges	Only transplant B&B, moderately difficult to transplant bare root	Acorns may be a littler problem in certain years	Wide street tree lawns/pits or parks preferred due to size		Medium to Large	X			4.5%	3.3
Scarlet Oak	<i>Quercus coccinea</i>	4-9	4-10	Full sun	Unknown	≤ 7.5	Non serious or limiting	60-70', can reach 100'+ in wild	40-50'	Round, open	Slow	Acorns, russet-red to brilliant scarlet in fall, leaves persist throughout winter, particularly on young trees	Difficult to transplant B&B or bare root	Acorns may be a littler problem in certain years	Wide street tree lawns/pits or parks due to size		Medium to Large	X			0.0%	

Common Name	Scientific Name	USDA Hardiness Zone	Soil Moisture Scale of 1 (very wet) to 12 (very dry)	Sunlight Conditions	Salt Tolerance	pH	Insect/Disease Factors	Height	Width	Form	Growth Rate	Ornamental Characteristics	Transplant issues	Management Issues	Suggested Uses	Other	Size Small (<30'), Medium to Large (>30')	Listed in Acceptable Street Trees for Dover, NH	Listed On the Silver Street Planting List	Listed In Downtown Dover Pedestrian and Vehicular Access and Streetscape Study	Estimated percent of Street Trees in CBD (Inventory Results)	Average Condition of Species in CBD (1=dead, dying; 2=poor; 3=fair; 4=good)
Swamp White Oak	<i>Quercus bicolor</i>	4-8	2-11	Full sun	Unknown	≤ 7.5	None serious or limiting	50-60'	50-60'	Broad, rounded, open, typically h as shorter trunk	Slow	Acorns, heavy crops at 3-5 year intervals, lustrous, leathery dark green in summer, yellow or sometimes red-purple in fall, attractive grayish brown, flaky bark with deep longitudinal fissures and flat ridges	Easy to transplant B&B or ≤ 2" caliper bare root	Acorns may be a littler problem in certain years	Wide street tree lawns/pits or parks due to size		Medium to Large	X			0.0%	
Scholar Tree or Japanese Pagodatree	<i>Sophora japonica</i>	4-8	4-12	Full sun	some tolerance	≤ 8.2	Twig die-back and stem canker common in colder zones, although not considered serious and rarely limiting	40-60'	35-55'	Oval to round, upright spreading branches	Medium to fast	Showy, creamy white flowers, pods may persist through winter, yellowish fall color, green bark on young (1-5 year old wood) branches	Easy to transplant B&B	None of significance	Narrow or wide street tree lawns/pits, parks		Medium to large	X			0.0%	
American Elm ('Liberty' included on Silver St. Planting List)	<i>Ulmus americana</i>	3-9	2-11	Full sun	some tolerance	≤ 8.2	Some cultivars resistant to Dutch elm disease, resistance to elm yellows and elm leaf beetle varies; Liberty elm in Exeter and Hampstead have succumbed to Dutch elm disease.	60-80', can grown over 100'	40-80'	Vase-shaped	Medium to fast	Disc-shaped fruit in spring, lustrous green or dark green foliage, yellow fall color, dark gray, fissured bark with broad, deep, intersecting ridges	Easy to transplant B&B or ≤ 2" caliper bare root	None of significance	Narrow or wide street tree lawns/pits, parks		Medium to large		X	X	3.1%	4
Green Vase Zelkova*	<i>Zelkova Serrata</i> 'green vase'	5-9	4-10	Full sun	some tolerance	≤ 8.2	None serious	60-70'	40-60'	Upright vase-shaped	Fast	Orange brown to bronze-red fall color	Easy to transplant B&B or ≤ 2" caliper bare root	Narrow crotch angles and poor branch attachments which can cause splitting and form damage when older	Narrow or wide street tree lawns/pits, parks		Medium to Large	X	X		0.0%	
Japanese Zelkova	<i>Zelkova serrata</i>	5-8	4-10	Full sun	some tolerance	≤ 8.2	None serious	25' or larger (50-70' or 120' in wild), depending on cultivar	20-35' or larger (40-60'), depending on cultivar	Oval to vase, depending on cultivar	Medium	Red fall color, bark exfoliates and mottles with oranges, grays, and browns with age	Easy to transplant B&B or ≤ 2" caliper bare root	Narrow crotch angles and poor branch attachments which can cause splitting and form damage when older	Narrow or wide street tree lawns/pits, parks		Medium to Large		X		2.0%	3.9
Sugar Maple	<i>Acer saccharum</i>	3-8	4-9	Full sun	Sensitive	≤ 7.5	<i>Verticillium Wilt</i> can be a problem in some areas, leaf scorch can be serious, Susceptible to Asian Longhorned Beetle (present in Worcester, MA)	45-50' typical, 60-75' possible, 100'+ in wild	35-40 typical, 55-70' possible	Oval to round	Slow to Medium	Pale yellow flowers, excellent fall color, smooth gray bark when young, furrows with age	Easy to transplant B&B or ≤ 2" caliper bare root	None of significance	Wide street tree lawns/pits due to drought sensitivity, parks	Heat sensitive	Medium to Large				2.8%	3.3

Common Name	Scientific Name	USDA Hardiness Zone	Soil Moisture Scale of 1 (very wet) to 12 (very dry)	Sunlight Conditions	Salt Tolerance	pH	Insect/Disease Factors	Height	Width	Form	Growth Rate	Ornamental Characteristics	Transplant issues	Management Issues	Suggested Uses	Other	Size Small (<30'), Medium to Large (>30')	Listed in Acceptable Street Trees for Dover, NH	Listed On the Silver Street Planting List	Listed In Downtown Dover Pedestrian and Vehicular Access and Streetscape Study	Estimated percent of Street Trees in CBD (Inventory Results)	Average Condition of Species in CBD (1=dead, dying; 2=poor; 3=fair; 4=good)
Northern Catalpa	<i>Catalpa speciosa</i>	4-8	2-10	Full sun	Unknown	≤ 8.2	None serious or limiting	50-60- typical, can reach over 100'	20-40'	Narrow, open, irregular-oval	Medium to fast	Showy, white flowers, 8-20" long pods that persist through winter	Easy to transplant B&B or ≤ 2" caliper bare root	Fruit little could be a nuisance in some areas	Narrow or wide street tree lawns/pits, parks		Medium to Large				0.0%	
Common Hackberry	<i>Celtis occidentalis</i>	3-9	3-11	Full sun to partial shade	Unknown	≤ 8.2	Susceptible to various problems, although most rarely serious or limiting except witches' broom; Susceptible to Asian Longhorned Beetle (present in Worcester, MA)	40-60'	similar to height, 40'+	Pyramidal when young, irregular-rounded when mature, open branching, somewhat elm-like with ascending then arching branches	Medium to fast	Yellow or orange-red to dark purple drupe, yellow fall foliage, gray rough, corky bark	Moderately difficult to transplant bare root, better success at planting bare root in fall, best planted B&B, somewhat slow to establish	None of significance	Wide street tree lawns/pits due to drought sensitivity, parks	Good heat and wind tolerance	Medium to Large				0.0%	
Bur Oak	<i>Quercus macrocarpa</i>	3-8	2-12	Full sun	Unknown	≤ 8.2	None serious or limiting	60-80'	60-90', typically equal to or slightly greater than height	Weakly pyramidal to oval in youth, broadly rounded and open with age	Slow	Pale yellowish catkins, heavy acorn crops at 3-5 year intervals, leathery, lustrous dark green leaves in summer, yellow-green-brown in fall	Difficult to transplant B&B or bare root, transplant small caliper trees	Acorns may be a litter problem certain years	Wide street tree lawns/pits or parks		Large					